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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/644,484	08/20/2003	Trung V. Le	10383US01	7391

7590

11/04/2005

Attention: Eric D. Levinson
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Legal Affairs
P.O. Box 64898
St. Paul, MN 55164-0898

EXAMINER

NGUYEN, HUNG THANH

ART UNIT	PAPER NUMBER
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2841

DATE MAILED: 11/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/644,484	Applicant(s) LE, TRUNG V.	
	Examiner HUNG T. NGUYEN	Art Unit 2841	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 October 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,7-13,15,19,20,23,25 and 27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,7-13,15,19,20,23,25 and 27 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |



DETAILED ACTION
Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1, 15, 23, 27, 7, 25, 8, 9, 10, 12, 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Kaneko Yoshio (2002JP-2002-084930 or US2003/0221066).

Regard claim 1, 15, 23, 27: Kaneko Yoshio discloses in figures 2-4, a memory card comprising: a memory (4); a first connector (2) electrically couple to the memory (4) and conforming to a first connector (2) standard; a second connector (3) electrically coupled to the memory (4) and conforming to a second connector (3), wherein the first connector (2) standard comprises a host computer connector (see column 3, paragraph 0029 and column 6, paragraph 0066) (HCC) standard and the second connector (3) standard comprises a device communication connector (see column 3, paragraph 0029 and column 6, paragraph 0066) (DCC standard; and a controller (5, 6) that controls the memory (4) and controls out put (see figure 2) via the first connector (2) and the second connector (3), wherein the first (2) and second (3) connectors are electrically coupled (see figure 2) to the memory (4) through the controller (5, 6) and wherein the controller (5, 6) comprises a memory controller (7) integrated with a first connector controller (5) conforming to the first connector (2) standard and integrated with a second connector controller (6) conforming to the second connector (3) standard.

Regard claim 7, 25: Kaneko Yoshio discloses in figures 2-4, the memory card wherein: the HCC comprises a standard selected from a group consisting of: a personal computer memory card international association (PCMCIA) standard (see column 3, paragraph 0029 and column 6, paragraph 0066), a PC Card standard, a CardBus standard (see column 3, paragraph 0029 and column 6, paragraph 0066), a Universal Serial Bus (USB) standard (see column 3, paragraph 0029 and column 6, paragraph 0066), a Universal Serial Bus 2 (USB2) standard (see column 3, paragraph 0029 and column 6, paragraph 0066), an IEEE 1394 Fire Wire standard (see column 3, paragraph 0029 and column 6, paragraph 0066), a Small Computer System Interface (SCSI) standard (see column 3, paragraph 0029 and column 6, paragraph 0066), an Advance Technology Attachment (ATA) standard (see column 3, paragraph 0029 and column 6, paragraph 0066), a serial ATA standard (see column 3, paragraph 0029 and column 6, paragraph 0066), a Peripheral Component Interconnect (PCI) standard (see column 3, paragraph 0029 and column 6, paragraph 0066), and a conventional serial or parallel standard (see column 3, paragraph 0029 and column 6, paragraph 0066); and the DCC comprises a standard selected from a group consisting of: a Compact Flash standard, a Smart Media standard (see column 3, paragraph 0029 and column 6, paragraph 0066), a MultiMedia Card standard (see column 3, paragraph 0029 and column 6, paragraph 0066), a Secure Digital standard (see column 3, paragraph 0029 and column 6, paragraph 0066), a Memory Stick standard (see column 3, paragraph 0029 and column 6, paragraph 0066), and an xD standard (see column 3, paragraph 0029 and column 6, paragraph 0066).

Regard claim 8: Kaneko Yoshio discloses in figures 2-4, the memory card wherein the first connector (explain in claim 1) is disposed (see figure 2) on a different side of the memory card (explain in claim 1) than the second connector (explain in claim 1).

Regard claim 9: Kaneko Yoshio discloses in figures 2-4, the memory card wherein the first connector (explain in claim 1) is disposed (see figure 2) on an opposite side of the memory card (explain in claim 1) relative to the second connector (explain in claim 1).

Regard claim 10: Kaneko Yoshio discloses in figure 2-4, the memory card wherein at least one of the first connector (explain in claim 1) and the second connector (explain in claim 1) comprises a retractable connector (elements 24, 26).

Regard claim 12: Kaneko Yoshio discloses in figure 2-4, the memory card wherein the first connector (explain in claim 1) is disposed on the same side (see figures 2-4) of the memory card as the second connector (explain in claim 1).

Regard claim 13: Kaneko Yoshio discloses in figure 2-4, the memory card wherein a set of electrical contact elements (24) of the first connector comprise a subset of a set of electrical contact elements (see element 24 and its set of contact in figure 3) of the second connector (explain in claim 1).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 11, 19, 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kaneko Yoshio (2002JP-2002-084930 or US 2003/0221066) in view of Jones et al. (US 6,438,638).

Regard claim 11: Kaneko Yoshio discloses all elements of the memory card as described above with respect to claim 1 except, Kaneko Yoshio does not disclose the memory card further comprising: a housing defining a slot for the retractable connector; and a first electrical contact on the retractable connector and a second electrical contact within the slot, wherein the first electrical contact couples to the second electrical contact when the retractable connector is extended from the slot.

Jones et al. discloses in figures 1A-3B, a housing defining a slot for the retractable connector; and a first electrical contact on the retractable connector and a second electrical contact within the slot, wherein the first electrical contact couples to the second electrical contact when the retractable connector is extended from the slot.

Kaneko Yoshio and Jones et al. are analogous art because they are from the same field of endeavor to make memory card.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art, to make slot of Kaneko Yoshio such that the first electrical contact couples to the second electrical contact when the retractable connector is extended from the slot as taught by Jones et al.

Therefore, it would have been obvious for one ordinary skill in the art to combine Kaneko Yoshio with Jones et al. for the benefit of connecting various memory cards.

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Regard claim 19, 20: Kaneko Yoshio discloses all elements of the memory card as described above with respect to claim 1 except, Kaneko Yoshio does not disclose the memory card further comprising a third connector electrically coupled to the memory and conforming to a third connector standard.

Jones et al. discloses the memory card further comprising a third connector electrically coupled to the memory and conforming to a third connector standard.

Kaneko Yoshio and Jones et al. are analogous art because they are from the same field of endeavor to make memory card

At the time of the invention, it would have been obvious to a person of ordinary skill in the art, to make connector of Kaneko Yoshio electrically coupled to the memory as taught by Jones et al.

Therefore, it would have been obvious for one ordinary skill in the art to combine Kaneko Yoshio with Jones et al. for the benefit of connecting device to memory.

Response to Amendment

1.1. Amendment filed on 10/03/2005 has been entered.

In response to the Office Action dated 7/25/2005, applicant has amended claims 1, 7, 15, 23, 25.

Claims 2-6, 14, 16-18, 21-22, 24 and 26 has been cancelled

Claims 1, 7-13, 15, 19-20, 23, 25 and new added claim 27

Applicant's arguments with respect to claim 1, 7-13, 15, 19, 20, 23, 25, 27 have been considered but are moot in view of the new ground(s) of rejection.

Relevant Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The Le (US 6890188) teaches the memory card compatible with device connectors, Le (US 6908038) teaches the multi purpose connectors, Dell et al. (US 6111757) teaches SIMM/DIMM memory modules.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUNG T. NGUYEN whose telephone number is 571-272-5983. The examiner can normally be reached on 8:00AM - 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, KAMMIE CUNEO can be reached on 571-272-1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

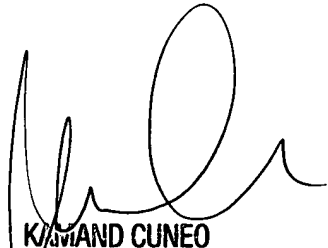
HN

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Hung Thanh Nguyen

October 17, 2005



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